

I/We Claim:

1. A plug connector for making an electrical connection with a battery terminal, the plug connector comprising:

5       a housing with an upper shell, and a lower shell; and  
      a contact lying within the housing and having a contact strip bent to form a cylindrical region and a helical spring contact disposed within the cylindrical region of the contact strip and sized to contact both the contact  
10       strip and the battery terminal;

      Wherein the upper shell and the lower shell each have a holding element extending within the cylindrical region formed by the contact strip to form a recess for holding the helical spring contact.

- 15   2. The plug connector according to Claim 1, wherein the helical spring contact abuts within the cylindrical region of the contact strip.
3. The plug connector according to Claim 1, wherein at least  
20       one of the holding elements is shaped such that the recess tapers in the direction of the interior of the cylindrical region in order to retain the helical spring contact in the cylindrical region.

4. The plug connector according to Claim 3, wherein both holding elements, at ends thereof, are tapered in the direction of the interior of the cylindrical region in order to retain the helical spring contact in the cylindrical region.
5. The plug connector according to claim 1, wherein at least one of the upper shell and the lower shell have recesses for receiving corresponding projections disposed on a protective ring surrounding a cylindrical portion of the battery terminal.
6. The plug connector according to claim 1, wherein the housing upper shell and the housing lower shell have complementary latching elements to latch them together in the assembled state.
7. A plug connector according to claim 1, wherein the housing upper shell has two flexible arms thereon with a grooves therein for receiving a spring to retain the plug connector on the battery terminal, the spring being releasable by pressing the flexible arms are together.
8. A plug connector according to claim 1, wherein the plug connector is configured such that the entire plug

connector can be arranged within a protective ring of the battery terminal.

9. A plug connector according to claim 1, wherein the upper and lower shells completely surround the contact.

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